



IFW16

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/463,733**

**DATE: 08/26/2004**  
**TIME: 11:39:12**

**Input Set : A:\Uc-851-1.app**  
**Output Set: N:\CRF4\08262004\I463733.raw**

3 <110> APPLICANT: Zuker, Charles  
 4 Vinos, Javier  
 5 The Regents of the University of California  
 7 <120> TITLE OF INVENTION: Method for Modulating G-Protein Coupled Receptors  
 9 <130> FILE REFERENCE: 02307E-085110US  
 11 <140> CURRENT APPLICATION NUMBER: US 09/463,733  
**C--> 12 <141> CURRENT FILING DATE: 2000-01-26**  
 14 <150> PRIOR APPLICATION NUMBER: US 60/054,165  
 15 <151> PRIOR FILING DATE: 1997-07-30  
 17 <150> PRIOR APPLICATION NUMBER: US 60/054,492  
 18 <151> PRIOR FILING DATE: 1997-08-01  
 20 <150> PRIOR APPLICATION NUMBER: WO PCT/US98/15717  
 21 <151> PRIOR FILING DATE: 1998-07-29  
 23 <160> NUMBER OF SEQ ID NOS: 1  
 25 <170> SOFTWARE: PatentIn Ver. 2.1  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 661  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Drosophila melanogaster  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: retinal degeneration C (RDGC) protein  
 35 <400> SEQUENCE: 1  
 36 Met Asp Glu Asn Ala Ile Arg Ala Ala Ile Phe Ile Gln Lys Trp Tyr  
 37 1 5 10 15  
 39 Arg Arg His Gln Ala Arg Arg Glu Met Gln Arg Arg Cys Asn Trp Gln  
 40 20 25 30  
 42 Ile Phe Gln Asn Leu Glu Tyr Ala Ser Glu Gln Asp Gln Ala Glu Leu  
 43 35 40 45  
 45 Tyr Lys Phe Phe Asn Asp Leu Ile Lys His Met Pro Gln Ala Ala Gly  
 46 50 55 60  
 48 Arg Lys Asn Gln Tyr Gln Gly Ser Ala His Val Ser Val Leu Asp Asp  
 49 65 70 75 80  
 51 Lys Asp Asp Leu Val Glu Glu Phe Gly Asp Ile Val Asn Ala Lys Ile  
 52 85 90 95  
 54 Glu Leu Pro Ile Arg Lys Asn His Ile Asp Leu Leu Ile Asp Val Phe  
 55 100 105 110  
 57 Arg Lys Lys Arg Gly Asn Arg Leu His Pro Lys Tyr Val Ala Leu Ile  
 58 115 120 125  
 60 Leu Arg Glu Ala Ala Lys Ser Leu Lys Gln Leu Pro Asn Ile Ser Pro  
 61 130 135 140  
 63 Val Ser Thr Ala Val Ser Gln Gln Val Thr Val Cys Gly Asp Leu His  
 64 145 150 155 160  
 66 Gly Lys Leu Asp Asp Leu Leu Val Val Leu His Lys Asn Gly Leu Pro

**ENTERED**

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67	165	170	175
69	Ser Ser Ser Asn Pro Tyr Val Phe Asn Gly Asp Phe Val Asp Arg Gly		
70	180	185	190
72	Lys Arg Gly Leu Glu Val Leu Leu Leu Ser Leu Tyr Leu Ala		
73	195	200	205
75	Phe Pro Asn Ala Val Phe Leu Asn Arg Gly Asn His Glu Asp Ser Val		
76	210	215	220
78	Met Asn Ala Arg Tyr Gly Phe Ile Arg Glu Val Glu Ser Lys Tyr Pro		
79	225	230	235
81	240	Arg Asn His Lys Arg Ile Leu Ala Phe Ile Asp Glu Val Tyr Arg Trp	
82	245	250	255
84	Leu Pro Leu Gly Ser Val Leu Asn Ser Arg Val Leu Ile Val His Gly		
85	260	265	270
87	Gly Phe Ser Asp Ser Thr Ser Leu Asp Leu Ile Lys Ser Ile Asp Arg		
88	275	280	285
90	Gly Lys Tyr Val Ser Ile Leu Arg Pro Pro Leu Thr Asp Gly Glu Pro		
91	290	295	300
93	Leu Asp Lys Thr Glu Trp Gln Gln Ile Phe Asp Ile Met Trp Ser Asp		
94	305	310	315
96	320	Pro Gln Ala Thr Met Gly Cys Val Pro Asn Thr Leu Arg Gly Ala Gly	
97	325	330	335
99	Val Trp Phe Gly Pro Asp Val Thr Asp Asn Phe Leu Gln Arg His Arg		
100	340	345	350
102	Leu Ser Tyr Val Ile Arg Ser His Glu Cys Pro Asn Gly His Glu		
103	355	360	365
105	Phe Met His Asp Asn Lys Ile Ile Thr Ile Phe Ser Ala Ser Asn Tyr		
106	370	375	380
108	Tyr Ala Ile Gly Ser Asn Lys Gly Ala Tyr Ile Arg Leu Asn Asn Gln		
109	385	390	395
111	400	Leu Met Pro His Phe Val Gln Tyr Ile Ser Ala Ala Ser Gln Thr Lys	
112	405	410	415
114	Arg Leu Ser Phe Lys Gln Arg Met Gly Ile Val Glu Ser Ser Ala Leu		
115	420	425	430
117	Lys Glu Leu Ala Val Arg Met Arg Asp His Arg Asp Glu Leu Glu Asp		
118	435	440	445
120	Glu Phe Arg Lys Tyr Asp Pro Lys Asp Ser Gly Tyr Ile Ser Ile Ser		
121	450	455	460
123	His Trp Cys Lys Val Met Glu Asn Val Thr Lys Leu Gly Leu Pro Trp		
124	465	470	475
126	480	Arg Leu Leu Arg Asp Lys Leu Ala Pro Gly Thr Asp Ser Gln Lys Val	
127	485	490	495
129	Asn Tyr Asn Arg Thr Leu Asp Leu Leu Asp Thr Asp Val Ile Leu Glu		
130	500	505	510
132	Ala Glu Ala Asp Gly Met Ser Val Met Asp Ala Leu Tyr Ala Asn Lys		
133	515	520	525
135	530	535	540
136	540	550	555
138	560	Glu Ile Thr Leu Asp Glu Phe Glu Thr Ala Ile Asp Leu Leu Val Ala	
139	545		

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141 His Met Pro Gly Ala Tyr Ser Lys Ala Glu Met Leu Glu Lys Cys Arg  
142 565 570 575  
144 Met Met Asp Leu Asn Gly Asp Gly Lys Val Asp Leu Asn Glu Phe Leu  
145 580 585 590  
147 Glu Ala Phe Arg Leu Ser Asp Leu His Arg Lys Glu Gln Gln Asp Glu  
148 595 600 605  
150 Asn Ile Arg Arg Arg Ser Thr Gly Arg Pro Ser Val Ala Lys Thr Ala  
151 610 615 620  
153 Thr Asp Pro Val Thr Leu Leu Ala Asp Lys Ile Ser Lys Asn Thr Leu  
154 625 630 635 640  
156 Val Val Glu His Asp Ile Asp Pro Thr Asp Cys Glu Ser Lys Val Ile  
157 645 650 655  
159 Asp Pro Lys Lys Ser  
160 660

**VERIFICATION SUMMARY**

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date